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ABSTRACT

This workbook offers a variety of quick language activities that develop grade 4-6 students' associative-reasoning and problem-solving skills. The activities in the workbook cover vocabulary development, classifying, sequencing, following directions, and word recognition. Sections of the workbook are Categories; Ordering; Missing Vowels; Think Links; Thinkem Linkems; Following Directions; Schedules; and Number-Word Expressions. Answers to the activities are attached. (RS)

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LANGUAGE SMARTS

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Quick Word Activities

BOOK B-1

Randy Wiseman

Critical Thinking Press & Software

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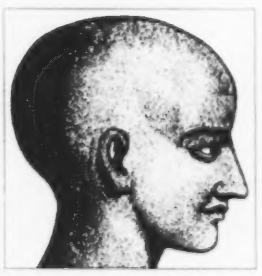
LANGUAGE SMARTS

Book B-1

RANDY WISEMAN



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Sincere appreciation to my editor, Cheryl Block, whose professional expertise contributed greatly to this publication.

Randy Wiseman

CATEGORIES

"I'm thinking" is a set of six statements that are related by a common category of vocabulary or word structure. Each statement gives two facts. The first fact is an example of the common category. The second fact tells you what the category is not. Analyze the six statements to determine what the common category is. Then write another statement of your own.

I'm thinking of something that is toe but not teeth

that is lip but not mouth

that is eye but not pupil

that is arm but not shoulder

that is ear but not head

that is leg but not knee

_____

What is the common category? _____

I'm thinking of something that is chess but not chest

that is rugby but not rug bee

that is poker but not poke her

that is bridge but not structure

that is checkers but not check

that is monopoly but not monotonous

_____

What is the common category? _____

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Analyze the six statements to determine what the common category is. Then write another statement of your own.

I'm thinking of something that is in unselfish but not generous

that is in reappear but not vanish

that is in incapable but not able

that is in precede but not follow

that is in undo but not change

that is in exchange but not trade

_____

What is the common category? _____

I'm thinking of something that is in tent but not camp

that is in ticket but not stub

that is in telecast but not show

that is in tight but not thick

that is in tournament but not bout

that is in theft but not steal

_____

What is the common category? _____

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Analyze the six statements to determine what the common category is. Then write another statement of your own.

I'm thinking of something that is a train but not rain

that is a bus but not brass

that is a van but not vain

that is a canoe but not carpet

that is an airplane but not a tree

that is a moped but not a radio

_____

What is the common category? _____

I'm thinking of something that is a dormitory but not a dormouse

that is a condominium but not a swimming pool

that is a motel but not a laundromat

that is a barracks but not a sergeant

that is a boardinghouse but not a landlord

that is an apartment but not a manager

_____

What is the common category? _____

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Analyze the six statements to determine what the common category is. Then write another statement of your own.

I'm thinking of something that is in rain but not salt

that is in fruit but not orange

that is in leap but not jump

that is in chief but not king

that is in leaf but not tree

that is in loud but not soft

_____

What is the common category? _____

I'm thinking of something that is in sleep but not slept

that is in green but not red

that is in middle but not first

that is in moon but not sun

that is in daffodil but not rose

that is in sooner but not later

_____

What is the common category ? _____

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Analyze the six statements to determine what the common category is. Then write another statement of your own.

I'm thinking of something that is in bake but not cook

that is in hate but not anger

that is in cattle but not herd

that is in lyre but not harp

that is in slave but not freedom

that is in slide but not swing

_____

What is the common category? _____

I'm thinking of something that is in car but not cab

that is in carp but not fish

that is in grass but not seed

that is in branch but not leaf

that is in trumpet but not piano

that is in read but not novel

_____

What is the common category? _____

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Analyze the six statements to determine what the common category is. Then write another statement of your own.

I'm thinking of something that is ounce but not pound

that is liter but not meter

that is pint but not yard

that is quart but not mile

that is gallon but not ton

that is barrel but not acre

_____

What is the common category? _____

I'm thinking of something that is in changeable but not rename

that is in neatness but not tidy

that is in roses but not iris

that is in appointment but not time

that is in stopped but not done

that is in sorrowful but not sad

_____

What is the common category? _____

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What does each group of words have in common?

1. admiral captain lieutenant major private colonel

_____

2. belle heiress matron niece nun damsel

_____

3. staff clef tone scale modulate note

_____

4. glasses suspenders pliers slippers scissors pants

_____

5. reaction beaker solution dissolve suspension experiment

_____

6. Tahoe Erie Placid Michigan Mead Winnebago

_____

7. jalopy coupe sedan roadster van convertible

_____

8. owl aardvark raccoon tiger bat opossum

_____

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What does each group of words have in common?

1. yacht canoe kayak tug catamaran schooner

_____

2. disk mouse modem keyboard drive screen

_____

3. Australia Europe Antarctica North America Asia Africa

_____

4. months eggs inches jury members doughnuts

_____

5. noun adverb preposition conjunction verb pronoun

_____

6. plateau cavern isthmus cove mesa prairie

_____

7. harness saddle reins stirrups blanket bridle

_____

8. magenta aqua teal vermilion ochre chartreuse

_____

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ORDERING

Number the following from least to greatest:

_____ one third

_____ four fifths

_____ one tenth

_____ two thirds

_____ one whole

_____ one eleventh

_____ one half

Number the following from greatest to least:

_____ forty-eight and three quarters

_____ forty-eight and one quarter

_____ forty-seven

_____ forty-eight and two thirds

_____ forty-eight and nine tenths

_____ forty-eight and one half

_____ forty-eight

_____ forty-eight and one third

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Number the following from greatest to least:

_____ a couple

_____ many

_____ nil

_____ all

_____ some

_____ few

Number the following from least to greatest:

_____ IV

_____ X

_____ I

_____ V

_____ XIV

_____ XXI

_____ VI

_____ IX

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Number the following from shortest to longest:

_____ week

_____ score

_____ decade

_____ fortnight

_____ month

_____ day

_____ century

_____ millenium

Number the following from heaviest to lightest:

_____ gerbil

_____ goat

_____ horse

_____ giraffe

_____ fox

_____ parrot

_____ whale

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Number the states in order from west to east:

_____ Kentucky

_____ California

_____ Colorado

_____ Nevada

_____ Virginia

_____ Kansas

_____ Missouri

Number the states in order from north to south:

_____ Virginia

_____ Delaware

_____ Florida

_____ South Carolina

_____ New Jersey

_____ Georgia

_____ North Carolina

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Number the planets in order from nearest to farthest from the sun:

_____ Earth

_____ Jupiter

_____ Mars

_____ Mercury

_____ Neptune

_____ Pluto

_____ Saturn

_____ Uranus

_____ Venus

Number the continents in alphabetical order and then according to size from largest to smallest:

Alphabetical		Size
_____	North America	_____
_____	South America	_____
_____	Europe	_____
_____	Asia	_____
_____	Africa	_____
_____	Australia	_____
_____	Antarctica	_____

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The alphabet chart may help you to solve the following sequences or patterns. Carefully analyzing the letter relationships will make this exercise easier to complete.

A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z

1. G, J, M, ____, ____, V, Y

2. ___, C, E, H, L, ____, W

3. A, B, E, ____, I, J, M, N, ____, R

4. O, M, ____, I, G, E

5. Y, ____, W, D, U, ____, S, J

6. W, V, W, U, ____, T, W, S, ____, R

7. K, J, ____, I, M, H, ____, G, O

8. L, ____, J, I, H, ____, F, ____, D

9. T, S, R, ____, P, O, N, ____, L

10. A, Z, B, Y, C, X, ____, W, E, ____, F

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Look for a common pattern or sequence between the letters, numbers, or words below then add the missing letters, numbers, or words to each series.

1. F, G, H, I, _____, K, _____, M

2. apple, berry, _____, fig, _____, huckleberry

3. sand, scrub, _____, shoe, _____, skull, _____

4. triangle, square, _____, _____, heptagon, octagon

5. Alicia, Brenda, Clive, _____, Edward, _____, George

6. D, G, _____, M, P, _____, V

7. seven, two, nine, _____, eleven, six, _____

8. C, E, G, _____, K, _____, O, Q, S, _____, W

9. 12, _____, 14, 33, _____, 31, 18, 29, _____

10. S, R, Q, _____, O, N, _____, L, K

11. L, _____, J, I, H, _____, F, _____, D

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Look for a pattern or sequence between the letters or words in each series below then add the missing letters or words.

1. I, K, M, _____, Q, S, _____, W, _____

2. X, V, _____, R, P, N, _____, J, H, _____

3. make, cake, _____, bake, fake, _____, lake, take

4. able, Albert, better, Balboa, _____, Chelsea, deep, _____

5. 9 P.M., 11 P.M., _____, 3 A.M., _____

6. because, become, before, _____, believe, _____

7. throwing, waiting, going, _____, standing, _____

8. first, second, third, _____, fifth, sixth, _____, eighth

9. G, I, K, _____, O, Q, _____, U, W

10. second, minute, hour, _____, week, month, _____

11. Arizona, _____, North Carolina, _____, Montana, _____

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MISSING VOWELS _____

All the vowels have been removed from the words below. Add vowels to each group of consonants so they correctly spell the name of a state. For example, TXS will spell TEXAS when the vowels E and A are correctly placed. Write the name of the state on the line provided.

NDN	_____	RZN	_____
RGN	_____	NVD	_____
GRG	_____	CLRD	_____
TH	_____	FLRD	_____
MCHGN	_____	KNSS	_____
LBM	_____	DH	_____
KLHM	_____	MNTN	_____
HW	_____	LSN	_____
LSK	_____	MN	_____
W	_____	H	_____

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All the vowels have been removed from the words below. Add vowels to each group of consonants so they correctly spell a means of transportation. For example, KYK will spell KAYAK when the vowel A is correctly placed. Write each word on the line provided.

BCCL	_____	TRCK	_____
FRGHTR	_____	CRRG	_____
RPLN	_____	HLCPTR	_____
SNWMBL	_____	WGN	_____
SBW	_____	LMSN	_____
SDN	_____	GLDR	_____
MNRL	_____	SHTTL	_____
CTMRN	_____	HDRFL	_____
CN	_____	FRR	_____
MPD	_____	SCTR	_____
TNKR	_____	SLGH	_____

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All the vowels have been removed from the words below. Add vowels to each group of consonants so they correctly spell a geographical term. For example, RVR will spell RIVER when the vowels I and E are correctly placed. Write each word on the line provided.

FRST	_____	JNGL	_____
SLND	_____	DSRT	_____
MNTN	_____	WDLND	_____
TNDR	_____	RCTC	_____
VLCN	_____	MS	_____
CNYN	_____	PLT	_____
SVNN	_____	PRR	_____
GLCR	_____	CRVSS	_____
CN	_____	PNNSL	_____
B	_____	CVRN	_____
BCH	_____	TLL	_____

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All the vowels have been removed from the words below. Add vowels to each group of consonants so they correctly spell the name of a musical instrument. For example, TB will spell TUBA when the vowels U and A are correctly placed. Write the name of the instrument on the line provided.

VLN _____

SXPHN _____

GTR _____

HRP _____

BSS _____

CLL _____

BGL _____

CCRDN _____

B _____

DRM _____

FLT _____

BNJ _____

TRMPT _____

TRMBN _____

CLRNT _____

PN _____

XLPHN _____

KLL _____

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All the vowels have been removed from the words below. Add vowels to each group of consonants so they correctly spell a mathematical term. For example, PTTRN will spell PATTERN when the vowels A and E are correctly placed. Write each word on the line provided.

RT	_____	RCTNGL	_____
GRPH	_____	SQR	_____
NGL	_____	NMRL	_____
DVD	_____	DD	_____
HGHT	_____	DCML	_____
WDTH	_____	DGT	_____
TTL	_____	QL	_____
STMT	_____	LNGTH	_____
SBTRCT	_____	R	_____
CRCL	_____	PRMTR	_____
NMBR	_____	TRNGL	_____
FRCTN	_____	MTR	_____

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All the vowels have been removed from the words below. Add vowels to each group of consonants so they correctly spell the name of a former United States president. For example, LNCLN will spell LINCOLN when the vowels I and O are correctly placed. Write the name of the president on the line provided.

WSHNGTN _____ JFFRSN _____

HVR _____ PLK _____

CRTR _____ NXN _____

DMS _____ FLLMR _____

MCKNL _____ WLSN _____

RGN _____ MNR _____

RSVLT _____ KNND _____

TRMN _____ JHNSN _____

FRD _____ SNHWR _____

JCKSN _____ HS _____

PRC _____ MDSN _____

GRNT _____ CLDG _____

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THINK LINKS

A think link is a pair of one-syllable rhyming words that is defined by a given phrase. To form a think link, study the clue phrase and think of two rhyming words that are synonyms for the key words in the phrase. For example, a skinny James would be a "Slim Jim." Draw a line from the phrase on the left to its think link on the right. Once you have the idea, make up your own and test your friends.

	Phrase	Think link
1.	a piercing string instrument	large barge
2.	a good baseball team	swell smell
3.	a fake dance	bright knight
4.	an introverted man	sharp harp
5.	a sluggish enemy	shoe clue
6.	a big boat	fine nine
7.	a high barrier	false waltz
8.	a terrific odor	tall wall
9.	footwear evidence	slow foe
10.	a shiny Sir Lancelot	shy guy

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Complete the think links by writing a one-syllable rhyming word pair for each clue phrase given. For example, a skinny James is a "Slim Jim."

1. an updated outlook _____
2. an artificial dessert _____
3. a cruel legume _____
4. a college regulation _____
5. skinny jewelry _____
6. a pale-red beverage _____
7. large animal furniture _____
8. a distant celebrity _____
9. a carpet insect _____
10. a jolt timepiece _____

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THINKEM LINKEMS

A thinkem linkem is a pair of two-syllable rhyming words that is defined by a given phrase. To form a thinkem linkem, study the clue phrase and think of two rhyming words that are synonyms for the key words in the phrase; for example, a fake horse is a "phony pony." Can you think of two words that have a similar meaning to heavier slugger? The thinkem linkem would be a "fatter batter." Draw a line from the phrase on the left to its thinkem linkem on the right. Once you have the idea, make up your own and test your friends.

	Phrase	**Thinkem linkem**
1.	beach sweets	wider spider
2.	an accumulating tenant	fable label
3.	a chocolate-candy fight	faker baker
4.	a tin flower part	chipper skipper
5.	an odd game warden	hoarder boarder
6.	a pretend chef	stranger ranger
7.	a fatter arachnid	tender fender
8.	a story tag	metal petal
9.	a happy captain	sandy candy
10.	a sensitive bumper	truffle scuffle

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Complete the think links and thinkem linkems by writing a one-syllable or two-syllable rhyming word pair for each clue phrase given.

1. a colorless crustacean _____

2. a tired wigwam _____

3. a tardy escort _____

4. a frightful couple _____

5. hilarious currency _____

6. a seven-day glance _____

7. an optometric secret agent _____

8. an iron cauldron _____

9. a slim dart _____

10. an improved cardigan _____

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Complete the thinkem linkems by writing a two-syllable rhyming word pair for each clue phrase given.

1. a changeable dill _____
2. a furry sprite _____
3. a dizzy work of art _____
4. a nonambitious flower _____
5. a tooth doctor's lease _____
6. a thorny egg dish _____
7. twin problems _____
8. a soft-spoken eating plan _____
9. a hilarious sweetener _____
10. flexible wood _____
11. a naval clothier _____
12. astonishing footwear _____

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Write a clue phrase for each thinkem linkem below. For example, "funny money" could be amusing currency or peculiar coins.

1. A parrot carrot is a _____
2. A cruel jewel is a _____
3. A middle fiddle is a _____
4. A gory story is a _____
5. A yellow jello is a _____
6. A merry berry is a _____
7. A trimmer swimmer is a _____
8. A higher flyer is a _____
9. A quiet riot is a _____
10. Shower power is _____
11. A pocket rocket is a _____
12. A party smarty is a _____

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Write a clue phrase for each thinkem linkem below. For example, "funny money" could be amusing currency or peculiar coins.

1. A table label is a _____

2. A phantom bantam is a _____

3. A scary berry is a _____

4. A damper camper is a _____

5. A turtle hurtle is a _____

6. A crabby cabbie is a _____

7. A salad ballad is a _____

8. A melon felon is a _____

9. A colder shoulder is a _____

10. A later gator is a _____

11. A regal beagle is a _____

12. A maroon lagoon is a _____

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FOLLOWING DIRECTIONS

You are to search for a specific number. Use the clues with the number list below to figure out what the specific number is.

3 2 0 0 8 2 2 6 5 3 2 0 1 7 1 1 4 9

1. Underline all the even numbers that are not made with straight lines.

2. The number you're looking for is neither the smallest nor the largest odd number.

3. Underline the tenth number; you won't use it.

4. A duet is represented by this number. Sorry, but this is not the unknown number.

5. Subtract one from half a dozen and you won't use that number.

6. Two of the remaining numbers total our missing number. From the remaining three numbers, circle the answer.

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Follow the clues listed below to fill in the blanks and guess the unknown word.

1. Starting with the first blank below, print the color of a stop sign.
2. Skip one blank and print the abbreviation for the word television.
3. Print the ninth letter of the alphabet in the remaining blank.
4. Cross out the first letter; you won't need it.
5. Change the third letter to an "l."
6. Make the last letter the nineteenth letter of the alphabet.
7. Make the next to last letter the letter between "l" and "n."
8. Unscramble the five letters to see what they spell.

___ ___ ___ ___ ___ ___

Hint: People could become happier by doing this.

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You will need a sheet of paper for this activity.

1. Write your first and last name in the middle of your paper.

2. Under your name, write your street address, city, state, and ZIP code.

3. Above your name, write your phone number.

4. Cross out the last three numbers of your phone number.

5. Print a homonym for knight below your address.

6. At the bottom left corner of your paper, write the following numbers in reverse order: 6, 1, 4, 8, 3.

7. Cross out all the even numbers in the bottom left corner.

8. Draw a box around the remaining number that when multiplied by two equals one of the numbers you just crossed out.

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You will need a sheet of paper for this activity.

1. Draw three large circles on your paper from left to right.

2. Divide each circle into four parts.

3. Each section of every circle will have only one number placed inside it.

4. Place the numbers 1 to 4 in the middle circle.

5. In the left circle, put the even numbers greater than one and less than ten.

6. In the right circle, put the odd numbers greater than one and less than ten.

7. Total the numbers in each circle and write the sum under each circle.

8. Put a check mark above the circle with the greatest sum.

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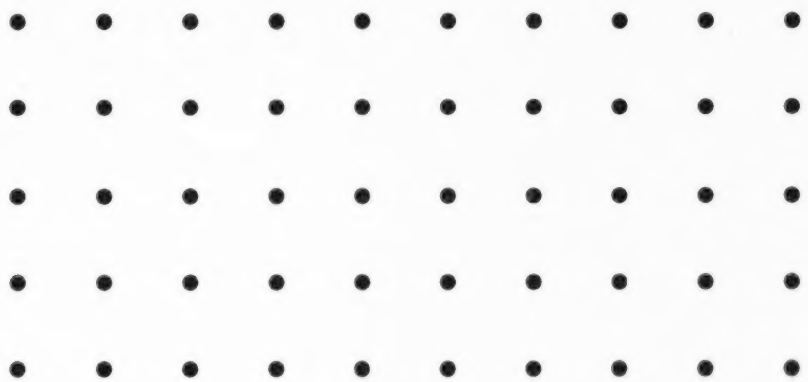

1. Put the letter E at the beginning of the bottom row of dots and the letter T at the right end of the bottom row. (All rows run left to right.)

2. Put the letter R at the right end of the top row of dots and the letter W at the beginning of the top row.

3. Circle the fifth dot in each row.

4. Put the letter I at the end of the row of dots that is directly under the letter R.

5. The letter I is to be placed at the beginning of the middle row of dots.

6. Place the letters G and H at the end of the remaining rows so they form a word that begins with an R and ends with a T.

7. Add a letter to the beginning of each remaining row so the letters form a word that is a homonym of the first word.

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Use the following floor plan of a shopping mall to complete the directions given below. The storefront numbers represent single and double storefronts.

100	102	103	104	106	107	108	110

S ←

200	202	203	204	206	207	208	210	211

1. Write the directions for north, east, and west on the floor plan.

2. Write WALKWAY in the middle of the floor plan.

3. Proceeding north from the south entrance, put an X on the northernmost storefront on the eastern side.

4. On the western side of the center, circle the smallest odd number in the southwest corner.

5. Add the next-to-largest number from the eastern side of the mall to the next-to-smallest number on the western side, and write the sum on the northernmost part of the walkway.

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You will need a sheet of paper for this activity.

1. Draw four squares on your paper from left to right.
2. Below the first square print the capital letter P.
3. Below the third square print the capital letter E.
4. Above the second square print the capital letter H.
5. Above the remaining square print the capital letter L.
6. Place the number 5 in the third square.
7. Place the number 8 in the second square.
8. Place the number 16 in the first square.
9. Place the number 12 in the remaining square.
10. Draw a triangle in the square with the largest even number.
11. Draw a triangle inside the square with an odd number.
12. Write your first name inside the square with the largest even number.
13. Write your last name inside the square with the number that is equal to one dozen.
14. Write your middle initial inside the second square.
15. Unscramble the letters above and below the squares to spell a synonym for SOS.
16. Print the synonym in the top right corner of your paper.

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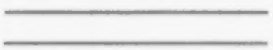
Giving good verbal directions requires practice. You are to give directions to a partner on how to draw the designs below. Your partner is not allowed to see the design; therefore, you must give clear directions. Use directional terms such as above, below, diagonally, and vertically to help your partner place the lines correctly. All lines should be about the same length. Give directions for individual lines rather than describing the general shape; for example, don't simply tell your partner to draw a letter H.

Example: Draw a horizontal line. Draw a second line under and parallel to the first line.



a)

b)

c)

d)

e)

f)

g)

h)

i)

j)

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You are to give directions to a partner on how to draw the designs below. Your partner is not allowed to see the design; therefore, you must give clear directions. Use directional terms such as above, below, diagonally, and vertically to help your partner place the lines correctly. All lines should be about the same length. Give directions for individual lines rather than describing the general shape; for example, don't simply tell your partner to draw a letter H.

Example: Draw a horizontal line. Draw the next two lines under and parallel to the first line.

a)

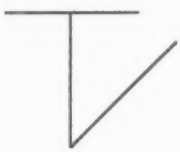
b)

c)

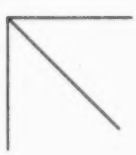
d)

e)

f)

g) 

h)

i) 

j)

42

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SCHEDULES

The following schedule deals with setting up times on the tennis courts at a local health club. Each person will be scheduled to play for one hour. From the clues given, you are to determine the order of the players.

1. Al must finish playing an hour before his 8:00 meeting.
2. Marge wishes to play later than anyone so that no one will see her play.
3. Katie will finish her game just before Bill plays. He will play on her court.
4. Matt always plays 30 minutes past the hour.
5. Bill must play later than Claude.
6. Donna plays early so she can drive Claude home.

	Court 1	Court 2
6:00–7:00		6:30–7:30
7:00–8:00		7:30–8:30
8:00–9:00		8:30–9:30
9:00–10:00		

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Roger Harrington is planning to clean his apartment this Saturday. He has made a list of jobs to do and noted how long each job will take. He will make the most efficient use of his time if he plans ahead. Also, if someone else cleans his apartment, they will know what he wants done and approximately how long it will take. Use the schedule on the following page to help you arrange the jobs in the most efficient order; the times listed are to be used as guidelines.
Hint: Certain jobs have to be done before other jobs can be started.

A.	Vacuum all carpeted floors	15 minutes
B.	Scrub and wax the kitchen and bathroom floors	90 minutes
C.	Dust and polish furniture in living and dining rooms	45 minutes
D.	Clean and disinfect toilets, sinks, bathtub, and shower	30 minutes
E.	Remove soiled linen and replace with fresh linen, shake out blankets and bedspreads	15 minutes
F.	Shake out all throw rugs	5 minutes
G.	Wash kitchen and living room windows and mirrors	20 minutes
H.	Empty wastebaskets and wash kitchen garbage can	10 minutes
I.	Change the towels in the two bathrooms	5 minutes
J.	Wash cupboards and clean appliances in kitchen	30 minutes

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	SATURDAY CLEANING SCHEDULE
8:00	
9:00	
10:00	
11:00	
12:00	

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Your teacher has asked you to make a computer-usage schedule for your class. There are thirty students and five computers. Your class has one hour to use the computers. Seven students working on a special project will need to use individual computers for twenty minutes each. The other twenty-three students will use a computer for ten minutes each, but they may work in pairs.

Write the names of the students in the boxes according to which computer they will be using and what time. Check off each name on the list as you schedule it. A schedule will help the students to plan their work or study time around their computer time.

	1	2	3	4	5
9:00–9:10					
9:10–9:20					
9:20–9:30					
9:30–9:40					
9:40–9:50					
9:50–10:00					

Abdul	20 min.	Frank	10 min.	Mary	10 min.
Allison	10 min.	Florence	10 min.	Miguel	10 min.
Astrida	10 min.	Graham	10 min.	Ned	20 min.
Bambi	10 min.	Heather	10 min.	Ramon	10 min.
Cara	10 min.	Janet	10 min.	Rita	20 min.
Charlotte	20 min.	Jeff	10 min.	Sara	10 min.
Chris	10 min.	Jill	10 min.	Sean	20 min.
Dominic	10 min.	Juan	20 min.	Tony	10 min.
Dorothy	10 min.	Julio	10 min.	Vickie	20 min.
Emmanuel	10 min.	Margot	10 min.	Zachary	10 min.

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We are, generally speaking, a mobile society. More people travel today than ever before. This activity demonstrates how to plan for a trip. You are to devise a possible time schedule listing a specific time for each activity to be accomplished.

1. It takes 15 minutes to check into your hotel and get to your room.

2. It takes 15 minutes after arriving to get your luggage.

3. It takes 15 minutes to water plants, close windows, and prepare to leave home.

4. You must arrive at the airport to check in and get your boarding pass one hour before your flight leaves.

5. It takes 30 minutes to pack your luggage.

6. It takes 15 minutes to unpack your suitcase, put on your swimsuit, and head to the pool.

7. You must purchase ground transportation tickets. The shuttle service leaves the airport every 20 minutes beginning on the hour. It takes 45 minutes to get to your hotel.

8. The flight arrives in Pleasure City at 1:30 P.M. after a one-hour flight.

9. The airport is 30 minutes from your home.

Hint: Arrange the nine steps in order before making your schedule.

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TRAVEL SCHEDULE	
10:15 a.m.	
10:30 a.m.	
10:45 a.m.	
11:00 p.m.	
11:15 p.m.	
11:30 p.m.	
11:45 p.m.	
12:00 p.m.	
12:15 p.m.	
12:30 p.m.	
12:45 p.m.	
1:00 p.m.	
1:15 p.m.	
1:30 p.m.	
1:45 p.m.	
2:00 p.m.	
2:15 p.m.	
2:30 p.m.	
2:45 p.m.	
3:00 p.m.	
3:15 p.m.	

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NUMBER-WORD EXPRESSIONS

We use many common phrases that involve numbers. The following expressions have been abbreviated so that only the first letter of each key word is given. When you solve the number-word expression, write it on the line provided.

Example: 7 d in a w 7 days in a week

1. 4 w d _____
2. 18 h on a g c _____
3. 1001 A n _____
4. 1 cm e 10 mm _____
5. 100 y on a f f _____
6. H is O 31 _____
7. A 21 g s _____
8. 8 l on a s _____
9. 1 d at a t _____
10. A p is w a 1000 w _____
11. A c has 9 l _____
12. 7 w of the a w _____

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The following expressions have been abbreviated so that only the first letter of each key word is given. When you solve the number-word expression, write it on the line provided.

Example: 7 d in a w 7 days in a week

1. 5 s to a p _____
2. 101 D _____
3. 5 v in the a _____
4. W b at 212 d F _____
5. 10 p is a s in b _____
6. 9 d in your s s n _____
7. 5 G L _____
8. 4 p on Mt. R _____
9. 4 s and 7 y ago _____
10. 100 y in a c _____
11. 29 d in F in a l y _____
12. 52 w in a y _____

50

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To solve the following number-word expressions, write the correct number on the line provided. You will probably need to use a reference book to find the answers.

Example: 6 legs on an insect

1. _____ players on a soccer team
2. _____ years in a millennium
3. _____ members in the House of Representatives
4. _____ notes in a musical scale
5. _____ squares on a checkerboard
6. _____ bones in the human body
7. _____ eras on the geologic time scale
8. _____ teeth in an adult human
9. _____ feet in a mile
10. _____ Pennsylvania Avenue is the White House
11. _____ legs on an octopus
12. _____ original colonies

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To solve the following number-word expressions, write the correct number on the line provided. You will probably need to use a reference book to find the answers.

Example: 6 legs on an insect

1. _____ musicians in a quintet
2. _____ sides to a hexagon
3. _____ members of the Supreme Court
4. _____ natural elements
5. _____ Articles in the Bill of Rights
6. _____ minutes in a day
7. _____ sides on a cube
8. _____ phases of the moon
9. _____ major systems in the human body
10. _____ types of volcanoes
11. _____ sections in a full orchestra
12. _____ basic senses

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ANSWERS

In some activities there may be more than one answer possible. For example, in the activities on page 15 and 16, there are several answers possible in some of the sequences. Teachers should encourage students to explain their reasoning and accept any answer that a student can reasonably justify.

1. 3-letter body parts; games

2. prefixes; two "t"s

3. transportation; housing

4. two vowels together; double letters

5. end in "e"; contain "r"

6. liquid measures; suffixes

7. (1) military personnel, (2) women, (3) musical terms, (4) a pair of, (5) chemistry terms, (6) American lakes, (7) kinds of cars, (8) nocturnal animals

8. (1) kinds of boats, (2) computer parts, (3) continents, (4) things in a dozen, (5) parts of speech, (6) geography terms, (7) horse equipment, (8) colors

9. (1) one eleventh, (2) one tenth, (3) one third, (4) one half, (5) two thirds, (6) four fifths, (7) one whole; (1) forty-eight and nine tenths, (2) forty-eight and three quarters, (3) forty-eight and two thirds, (4) forty-eight and one half, (5) forty-eight and one third, (6) forty-eight and one quarter, (7) forty-eight, (8) forty-seven

10. (1) all, (2) many, (3) some, (4) few, (5) a couple, (6) nil; (1) I, (2) IV, (3) V, (4) VI, (5) IX, (6) X, (7) XIV, (8) XXI

11. (1) day, (2) week, (3) fortnight, (4) month, (5) decade, (6) score, (7) century, (8) millenium; (1) whale, (2) giraffe, (3) horse, (4) goat, (5) fox, (6) parrot, (7) gerbil

12. (1) California, (2) Nevada, (3) Colorado, (4) Kansas, (5) Missouri, (6) Kentucky, (7) Virginia; (1) New Jersey, (2) Delaware, (3) Virginia, (4) North Carolina, (5) South Carolina, (6) Georgia, (7) Florida

13. (1) Mercury, (2) Venus, (3) Earth, (4) Mars, (5) Jupiter, (6) Saturn, (7) Uranus, (8) Neptune, (9) Pluto; (1) Africa, (2) Antarctica, (3) Asia, (4) Australia, (5) Europe, (6) North America, (7) South America; (1) Asia, (2) Africa, (3) North America, (4) South America, (5) Antarctica, (6) Europe, (7) Australia

14. (1) P, S, (2) B, Q, (3) F, Q, (4) K, (5) A, G, (6) W, W, (7) L, N, (8) K, G, E, (9) Q, M, (10) D, V

15. (1) J, L, (2) cherry or cantaloupe, grapes or grapefruit, (3) sell or send, sing or sift, slip or slide, (4) pentagon, hexagon, (5) Doug or Dwayne, Fred or Frank, (6) J, S, (7) four, thirteen, (8) I, M, U, (9) 35, 16, 20, (10) P, M, (11) K, G, E

16. (1) O, U, Y, (2) T, L, F, (3) rake, sake, or wake (4) cable, Donald, (5) 1 A.M., 5 A.M., (6) beget or behind, bemoan, (7) pushing, cheering, (8) fourth, seventh, (9) M, S, (10) day, year, (11) Indiana, South Carolina, Louisiana

17. First column: Indiana, Oregon, Georgia, Utah, Michigan, Alabama, Oklahoma, Hawaii, Alaska, Iowa

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Second column: Arizona, Nevada, Colorado, Florida, Kansas, Idaho, Montana, Louisiana, Maine, Ohio

18. First column: bicycle, freighter, airplane, snowmobile, subway, sedan, monorail, catamaran, canoe, moped, tanker
Second column: truck, carriage, helicopter, wagon, limousine, glider, shuttle, hydrofoil, ferry, scooter, sleigh

19. First column: forest, island, mountain, tundra, volcano, canyon, savanna, glacier, ocean, bay, beach
Second column: jungle, desert, woodland, arctic, mesa, plateau, prairie, crevasse, peninsula, cavern, atoll

20. First column: violin, saxophone, guitar, harp, bass, cello, bugle, accordion, oboe
Second column: drum, flute, banjo, trumpet, trombone, clarinet, piano, xylophone, ukulele

21. First column: root, rate, or ratio, graph, angle, divide, height, width, total, estimate, subtract, circle, number, fraction
Second column: rectangle, square, numeral, add or odd, decimal, digit, equal, length, ray or area, perimeter, triangle, meter

22. First column: Washington, Hoover, Carter, Adams, McKinley, Reagan, Roosevelt, Truman, Ford, Jackson, Pierce, Grant
Second column: Jefferson, Polk, Nixon, Fillmore, Wilson, Monroe, Kennedy, Johnson, Eisenhower, Hayes, Madison, Coolidge

23. (1) sharp harp, (2) fine nine, (3) false waltz, (4) shy guy, (5) slow foe, (6) large barge,(7) tall wall, (8) swell smell, (9) shoe clue, (10) bright knight

24. (1) new view, (2) fake cake, (3) mean bean, (4) school rule, (5) thin pin, (6) pink drink, (7) bear chair, (8) far star, (9) rug bug, (10) shock clock

25. (1) sandy candy, (2) hoarder boarder, (3) truffle scuffle, (4) metal petal, (5) stranger ranger, (6) faker baker, (7) wider spider, (8) fable label, (9) chipper skipper, (10) tender fender

26. (1) pale snail or drab crab, (2) sleepy teepee, (3) late date, (4) gruesome twosome, (5) funny money, (6) week peek, (7) eye spy, (8) metal kettle, (9) narrow arrow, (10) better sweater

27. (1) fickle pickle, (2) hairy fairy, (3) fainting painting, (4) lazy daisy, (5) dental rental, (6) bramble scramble, (7) double trouble, (8) quiet diet, (9) funny honey, (10) limber timber, (11) sailor tailor, (12) shocking stocking

28. Possible answers: (1) vegetable bird, (2) mean earring, (3) center violin, (4) bloody tale, (5) lemon-colored gelatin, (6) cheerful fruit, (7) thinner athlete, (8) more elevated pilot, (9) silent fight, (10) rainfall strength, (11) pouch missile, (12) celebration genius

29. Possible answers: (1) furniture tag, (2) ghost rooster, (3) frightening fruit, (4) wetter outdoorsman, (5) tortoise throw, (6) irritable driver, (7) leafy green song, (8) cantaloupe criminal, (9) cooler body part, (10) delayed crocodile, (11) royal dog, (12) burgundy bay

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30. 7

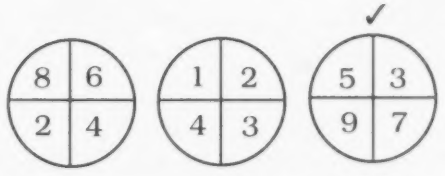
31. Smile

32.

000-0000
Paul White
45 Oak St.
Kent, Oh. 90000
night

3, 8, 4, 1, 6

33.



34.

W . . . . ⊙ . . . . . R
R . . . . ⊙ I
I . . . . ⊙ . . . . . G
T . . . . ⊙ . . . . . H
E . . . . ⊙ . . . . . T

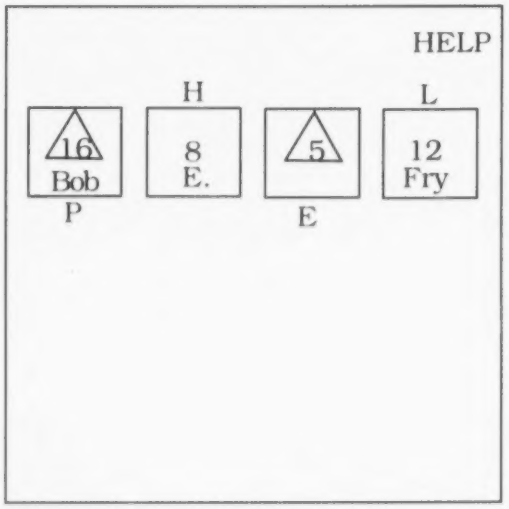
35.

W

100	102	103	104	106	107	108	110	
S			Walkway			312		N
200	202	203	204	206	207	208	210	211 X

E

36.



37. Sample directions: (a) Draw two parallel vertical lines. (b) Draw a horizontal line. From the center of the first line, draw a line down and perpendicular to the first line. (c) Draw a line slanting down to the right at a 45° angle. Starting at the bottom end of the first line, draw a second line slanting up to the right at a 45° angle. (d) Draw a vertical line. Starting at the top of the first line, draw a second line to the right at a right angle from the first line. (e) Draw a vertical line. Starting from the center of the first line, draw a second line to the right at a right angle. (f) Draw a vertical line. From the top of the first line, draw a second line slanted down to the right at a 45° angle. (g) Draw a horizontal line. Draw a second line up at a right angle from the right end of the first line. (h) Draw a horizontal line. Draw a second line up and perpendicular from the center of the first line. (i) Draw a horizontal line. Draw a second horizontal line next to the first line. (j) Draw a line

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slanted up and right at a 45° angle. From the center of the first line, draw a second line slanted down and perpendicular to the first line.

38. Sample directions: (a) Draw a vertical line. Starting from the top of the first line, draw a second line slanted down to the right at a 45° angle. Draw a third line above and parallel to the second line. (b) Draw a vertical line. Starting from the top of the first line, draw a second line to the right at a right angle from the first line. Starting from the center of the first line, draw a third line parallel to the second line. (c) Draw a vertical line. Draw a second line parallel to the first line. Draw a third line horizontally across the top of the first two lines. The two vertical lines should be centered under the third line. (d) Draw a horizontal line. Starting at the center of the first line, draw a second line slanting down to the left at a 45° angle. Starting at the same point, draw a line slanting down to the right at a 45° angle. (e) Draw a horizontal line. Draw a parallel line under the first line. Starting at the center of the second line, draw a vertical line down. (f) Draw a horizontal line. At the left end of the line draw a vertical line with the first line joining it at the center. At the right end of the first line, draw a second vertical line with the first line joining it at the center. (g) Draw a horizontal line. From the center of the first line, draw a vertical line down. From the bottom of the second line, draw a third line slanting up to the right at a 45° angle. (h) Draw a horizontal line. From the right end of the first line, draw a vertical line down. From the bottom of the second line, draw a horizontal line to the right. (i) Draw a vertical line. From the top of the first line, draw a horizontal line to the right. From the intersection of the first two lines, draw a line slanting down to the right at a 45° angle. (j) Draw a line slanting up to the right at a 45° angle. From the top of the first line, draw a second line slanting down to the right at a 45° angle. From the center of the first line to the center of the second line, draw a horizontal line.

39. Schedule 1:

Court 1		Court 2	
6–7	Al	6:30	Donna
7–8	Katie	7:30	Claude
8–9	Bill	8:30	Matt
9–10	Marge		

Schedule 2:

Court 1		Court 2	
6–7	Al	6:30	Matt
7–8	Donna	7:30	Katie
8–9	Claude	8:30	Bill
9–10	Marge		

40. One possible schedule for the Saturday cleaning is:

SATURDAY CLEANING	
8:00	Clean and disinfect toilet, sinks, bathtub, and shower Wash cupboards and clean appliances in kitchen
9:00	Empty wastebaskets and wash kitchen garbage can Wash kitchen and living room windows and mirrors
9:30	Shake out all throw rugs Remove soiled linen, etc. Change the towels in the two bathrooms
9:55	Scrub and wax the kitchen and bathroom floors
11:25	Dust and polish furniture in living and dining rooms
12:10	Vacuum all carpeted floors

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42. One possible schedule for computer use:

9:00	Abdul	Charlotte	Jill	Ned	Sean
9:10			Juan		
9:20	Allison	Dorothy Emmanuel		Ramon	Tony
9:30	Astrida Bambi	Frank Florence	Julio Margot	Rita	Vickie
9:40	Cara	Graham Heather	Mary		
9:50	Chris Dominic	Janet Jeff	Miguel	Sara	Zachary

43.

TRAVEL SCHEDULE	
10:15 a.m.	Pack bags
10:45 a.m.	Prepare to leave
11:00 a.m.	Drive to airport
11:30 a.m.	Check in at airport
12:30 p.m.	Flight leaves
1:30 p.m.	Arrive, get luggage
1:45 p.m.	Buy shuttle ticket
2:00 p.m.	Take shuttle to hotel
2:45 p.m.	Check in at hotel
3:00 p.m.	Unpack
3:15 p.m.	Head for pool

45. (1) 4 wheel drive, (2) 18 holes on a golf course, (3) 1001 Arabian nights, (4) 1 centimeter equals 10 millimeters, (5) 100 yards on a football field, (6) Halloween is October 31, (7) a 21-gun salute, (8) 8 legs on a spider, (9) 1 day at a time, (10) a picture is worth a 1000 words, (11) a cat has 9 lives, (12) 7 wonders of the ancient world

46. (1) 5 sides to a pentagon, (2) 101 Dalmatians, (3) 5 vowels in the alphabet, (4) water boils at 212 degrees Fahrenheit, (5) 10 pins is a strike in bowling, (6) 9 digits in your social security number, (7) 5 Great Lakes, (8) 4 presidents on Mt. Rushmore, (9) 4 score and 7 years ago, (10) 100 years in a century, (11) 29 days in February in a leap year, (12) 52 weeks in a year

47. (1) 11 players on a soccer team, (2) 1000 years in a millenium, (3) 435 members of the House of Representatives, (4) 8 notes in a musical scale, (5) 64 squares on a checkerboard, (6) 206 bones in the human body, (7) 3 eras on the geologic time scale, (8) 32 teeth in an adult human, (9) 5,280 feet in a mile, (10) 1600 Pennsylvania Avenue, (11) 8 legs on an octopus, (12) 13 original colonies

48. (1) 5 musicians in a quintet, (2) 6 sides to a hexagon, (3) 9 members of the Supreme Court, (4) 92 natural elements, (5) 10 Articles in the Bill of Rights, (6) 1,440 minutes in a day, (7) 6 sides on a cube, (8) 8 phases of the moon, (9) 7 major systems in the human body (skeletal-muscular, digestive, urinary, respiratory, circulatory, nervous, and reproductive), (10) 3 types of volcanoes (shield, cinder cone, composite), (11) 4 sections in a full orchestra (brass, percussion, strings, woodwinds), (12) 5 basic senses

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